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NELL-1 enhances mineralization in fetal calvarial TI

osteoblastic cells

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The association of MELL-1 expression with bone formation and mineralization of the calvarial osteoblast-like cells was studied. AB MBLL-1 mRNA was faintly expressed from day 14 of gestation with mild increase over the gestation period. Both primary rat fetal calvarial cell cultures and MC3T3 cell cultures overexpressing MELL-1 showed an increase in mineralization. Mouse cDNA array results from NELL-1-infected MC3T3 cells showed the expression modulation of the genes related to bone formation and craniofacial development: downregulation in BMP-7 gene expression and upregulation of Split Hand and Foot gene.

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